



# MASENO SCHOOL MOCK – 2022

Kenya Certificate of Secondary Education



312/1

Paper 1

## GEOGRAPHY

Sept. 2022 – 2<sup>3</sup>/<sub>4</sub> hours

Name ..... Admission Number .....

Class ..... Date ..... Candidate's Signature.....

### Instructions to candidates

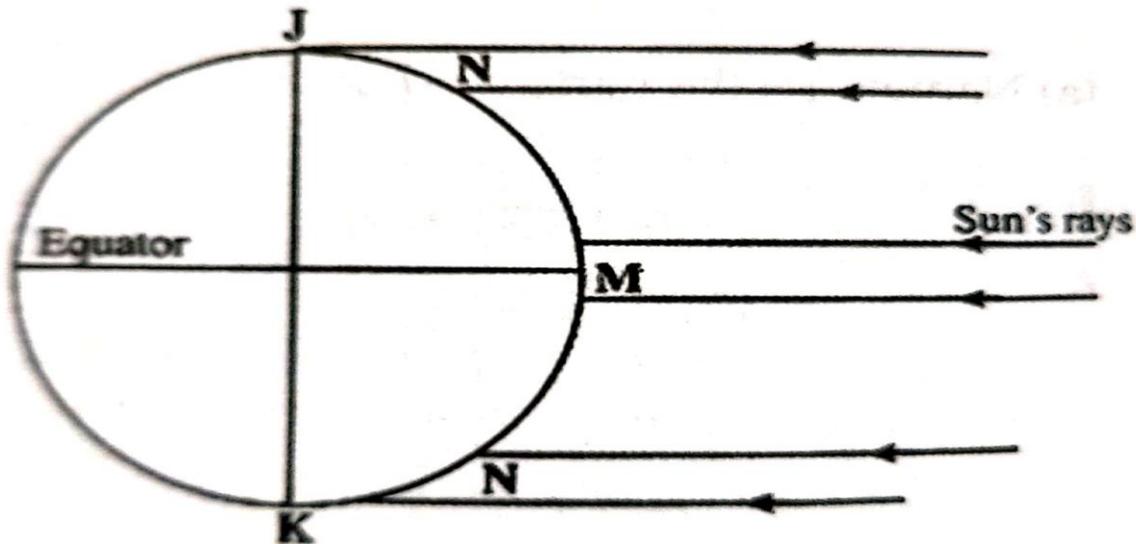
- Write your name and Admission Number in the spaces provided above.
- Write your class, date of examination and sign in the spaces provided above.
- This paper consists of two sections; **A** and **B**.
- Answer **all** the questions in section **A**.
- Answer question **6** and any other **two** questions from section **B**.
- Answers must be written in the spaces provided at the end of question 10.
- This paper consists of **5** printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer the questions in English.

### For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 - 5	25	
B	6	25	
		25	
		25	
Total Score			

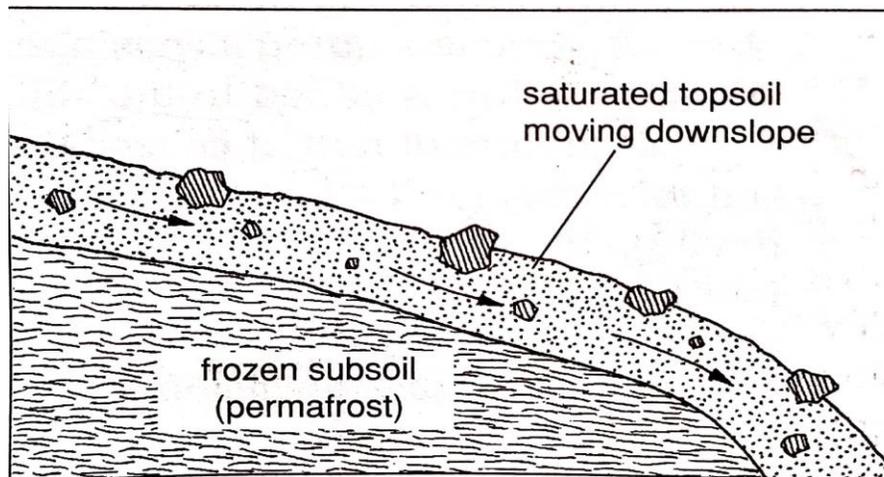
**SECTION A.**

1. a) What is a solar system? (2marks)
- b) Give **THREE** components of the solar system. (3 marks)
2. The diagram below shows the angles of the Sun's rays at different latitudes when the sun is at the equator. Use it to answer questions (a) and (b)



- a) Name the parts of the earth's surface marked J and K. (2 marks)
- b) Give two reasons why the intensity of the insolation is higher at M than at N. (2 marks)
3. a) Name **TWO** types of faults. (2 marks)
- b) Explain any **TWO** processes that causes faulting. (4 marks)
4. a) Identify the types of vegetation in the following areas. (2 marks)
- b) State **THREE** characteristics of Savanna vegetation in Kenya. (3 marks)

5. Study the diagram below and use it to answer the questions that follow



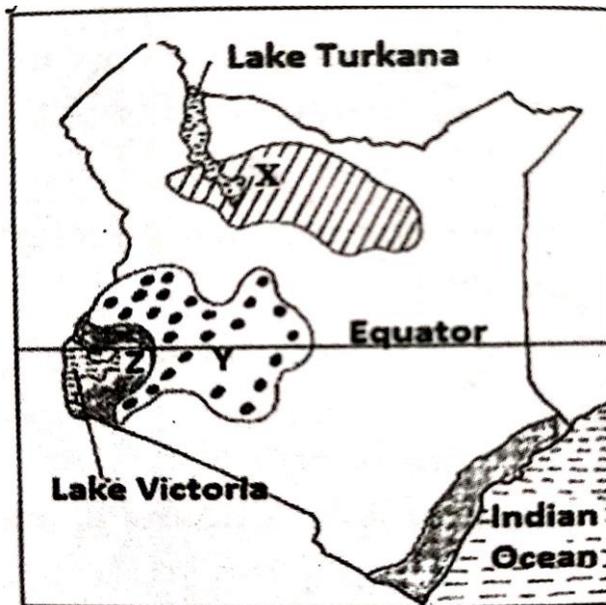
- a) Identify the process above (1 mark)
- b) Describe how the process above takes place. (4 marks)

**SECTION B:** (75 MARKS)

6. a) i) What type of map is Nyeri sheet? (1 mark)
- ii) Identify **TWO** districts found in the area covered by the map. (2 marks)
- iii) Citing evidence state **TWO** functions of the area covered by the map. (4 marks)
- b) i) Explain **TWO** factors that favour trade in the area covered by the map. (4 marks)
- ii) Describe the relief of the area covered by the map. (5 marks)
- c) i) Draw across-section between trigonometric station at 6963 and grid reference 7561. Use scale. 1cm rep 40m. mark and label
- Amboni farm (1 mark)
  - River (1 mark)
  - Kimenju estate (1 mark)
- ii) Calculate vertical exaggeration. (2 marks)

7. a) i) What is a rock? (2 marks)  
 ii) Give **TWO** examples of plutonic igneous rocks. (2 marks)
- b) Describe the process of formation of the following types of sedimentary rocks.  
 i) Mechanically formed (4 marks)  
 ii) Organically formed (4 marks)
- c) State **FIVE** characteristics of rocks. (5 marks)
- d) Form Four Geography candidates of Maseno School are planning to carry out a field study on rocks within their environment
- i) List **THREE** methods they will use to record data. (3 marks)  
 ii) Identify **TWO** items that they will carry during the study. (2 marks)  
 iii) State **THREE** follow-up activities they will get involved in after the study. (3 marks)

8. The map below shows some climatic regions of Kenya. Use it to answer question (a)



- (a) i) Name the climatic regions marked X,Y. (2 marks)  
 ii) State **THREE** characteristics of the climatic region marked Z. (3 marks)
- b) Explain how the following factors influences climate  
 i) Altitude (2 marks)  
 ii) Ocean currents (2 marks)  
 iii) Latitude (2 marks)

c) What are the negative effects of climate change on the physical environment (4 marks)

d) The table below shows rainfall and temperature figures of a station in Africa

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (°C)	24	24	23	22	19	17	17	18	19	20	22	23
Rainfall (mm)	109	122	130	76	52	34	28	38	70	108	121	120

i) Calculate the annual temperature range of the station above. (2 marks)

ii) Calculate the mean annual rainfall. (2 marks)

e) i) Differentiate between aridity and desertification. (2 marks)

ii) State **FOUR** possible solutions to aridity and desertification (4 marks)

9. a) i) Name **TWO** types of submerged highland coasts. (2 marks)

ii) Identify **TWO** resultant features of the emerged highland coasts. (2 marks)

b) i) Explain **THREE** factors that determine the rate of coastal erosion. (6 marks)

ii) Identify **TWO** features found at the beach. (2 marks)

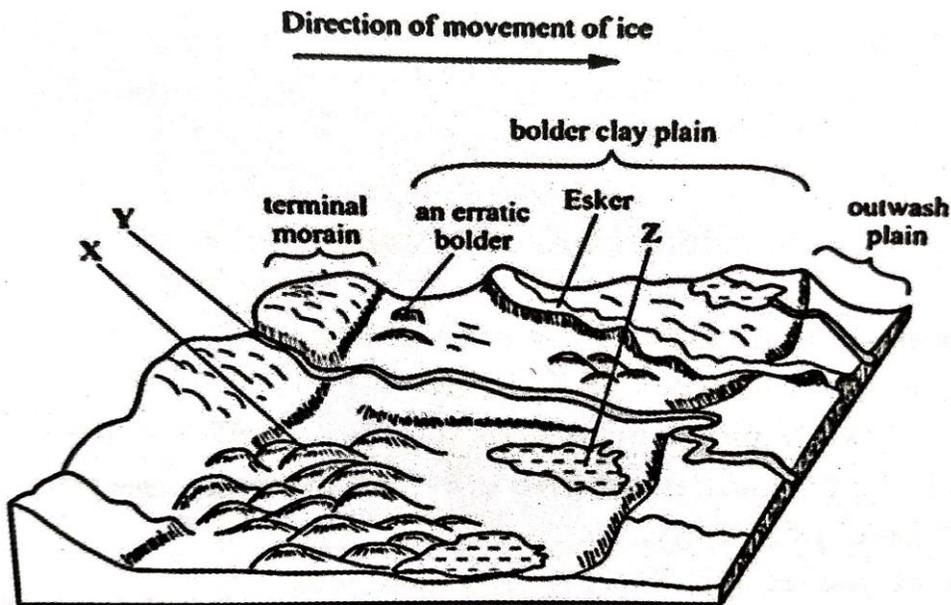
iii) State **THREE** conditions necessary for the formation of a beach. (3 marks)

c) i) Using a well labelled diagram(s), describe how a bay bar is formed. (6 marks)

ii) State **FOUR** ways in which corals contribute to the economic development of Kenya. (4 marks)



10. a) i) What is glacier? (2 marks)
- ii) Name **TWO** types of glacier. (2 marks)
- iii) Explain **TWO** process which the glacier erodes. (4 marks)
- b) i) Describe the formation of a crag and tail. (4 marks)
- ii) The diagram below shows features resulting from glacial deposition in lowland area.



Name the features marked X, Y,Z (3 marks)

iii) Explain **TWO** positive effects of glaciation in lowland areas. (4 marks)

c) i) Students from your school are planning to carry out field study. Give reasons why they would require a working schedule. (3 marks)

ii) Give **THREE** reasons why it would be difficult for the students to undertake field study on the glaciated features on top of the mountain. (3 marks)